

WHAT IS CLAIMED IS:

1. An image sensing apparatus for converting an object image into a video signal, comprising:

an image lens for obtaining an object image;

an image sensing means having an electrical shutter for capturing the object image to convert it into the video signal;

an iris means provided in front of the image sensing means capable of controlling an aperture for the object image to maintain the luminance of the object image on an image sensing surface of the image sensing means coming through the image lens within a predetermined level;

a diffraction grating optical low-pass filter for providing birefringence of the object image, and for limiting a spatial frequency of the object image being obtained by the image lens; and

a control means for preventing the optical low-pass filter from deteriorating functionality of diffraction by controlling the speed of the electrical shutter to keep the aperture of the iris means at the predetermined value.

2. The image sensing apparatus as claimed in Claim 1, further comprises a Neutral Density filter to be inserted in the light path of the object image for maintaining the aperture of the iris means to be more than predetermined level.